**TEAM 8**

**CLINIC MANAGEMENT SYSTEM**

**SQL DOCUMENTATION**

--Database creation

CREATE DATABASE CMS;

USE CMS;

--Creating Tables--

-- Table Departments

CREATE TABLE **Departments**

(

DepartmentId INT PRIMARY KEY IDENTITY(1,1),

DepartmentName VARCHAR(30) NOT NULL,

);

-- Table Roles

CREATE TABLE **Roles**

(

RoleId INT PRIMARY KEY IDENTITY(1,1),

RoleName VARCHAR(30) NOT NULL,

);

-- Table AppointmentTypes

CREATE TABLE **AppointmentTypes**

(

AppointmentTypeId INT PRIMARY KEY IDENTITY(1,1),

AppointmentType VARCHAR(30) NOT NULL,

);

-- Table Specializations

CREATE TABLE **Specializations**

(

SpecializationId INT PRIMARY KEY IDENTITY(1,1),

SpecializationName VARCHAR(30) NOT NULL,

);

-- Table Labs

CREATE TABLE **Labs**

(

LabId INT PRIMARY KEY IDENTITY(1,1),

LabName VARCHAR(30) NOT NULL,

IsActive BIT NOT NULL

);

-- Table Login

CREATE TABLE **Login**

(

LoginId INT PRIMARY KEY IDENTITY(1,1),

UserName VARCHAR(30) NOT NULL,

Password VARCHAR(30) NOT NULL,

RoleId INT NOT NULL,

CONSTRAINT FK\_ROLE\_LOGIN FOREIGN KEY(RoleId) REFERENCES Roles(RoleId)

);

-- Table Employees

CREATE TABLE **Employees**

(

EmployeeId INT PRIMARY KEY IDENTITY(1,1),

EmployeeName VARCHAR(30) NOT NULL,

Age INT NOT NULL,

MobileNo NUMERIC NOT NULL,

Gender VARCHAR(10) NOT NULL,

DateOfJoining DATE NOT NULL,

DepartmentId INT NOT NULL,

RoleId INT NOT NULL,

IsActive BIT NOT NULL,

CONSTRAINT FK\_EMPLOYEE\_DEPT FOREIGN KEY(DepartmentId) REFERENCES Departments(DepartmentId),

CONSTRAINT FK\_EMPLOYEE\_ROLE FOREIGN KEY(RoleId) REFERENCES Roles(RoleId),

CHECK(Gender IN ('Male','Female'))

);

-- Table Patients

CREATE TABLE **Patients**

(

PatientId INT PRIMARY KEY IDENTITY(1,1),

PatientName VARCHAR(30) NOT NULL,

Age INT NOT NULL,

MobileNo NUMERIC NOT NULL,

Gender VARCHAR(10) NOT NULL,

Address VARCHAR(30) NOT NULL,

IsActive BIT NOT NULL,

CHECK(Gender IN ('Male','Female'))

);

-- Table Appointments

CREATE TABLE **Appointments**

(

AppointmentId INT PRIMARY KEY IDENTITY(1,1),

AppointmentTypeId INT NOT NULL,

PatientId INT NOT NULL,

EmployeeId INT NOT NULL,

AppointmentStatus BIT NOT NULL,

CONSTRAINT FK\_APPOINTMENT\_APTYPE FOREIGN KEY(AppointmentTypeId) REFERENCES AppointmentTypes(AppointmentTypeId),

CONSTRAINT FK\_APPOINTMENT\_PATIENT FOREIGN KEY(PatientId) REFERENCES Patients(PatientId),

CONSTRAINT FK\_APPOINTMENT\_EMP FOREIGN KEY(EmployeeId) REFERENCES Employees(EmployeeId),

);

-- Table EmployeeSpecializations

CREATE TABLE **EmployeeSpecializations**

(

ESId INT PRIMARY KEY IDENTITY(1,1),

SpecializationId INT NOT NULL,

EmployeeId INT NOT NULL,

CONSTRAINT FK\_ES\_Specialization FOREIGN KEY(SpecializationId) REFERENCES Specializations(SpecializationId),

CONSTRAINT FK\_ES\_Employee FOREIGN KEY(EmployeeId) REFERENCES Employees(EmployeeId),

);

-- Table Prescriptions

CREATE TABLE **Prescriptions**

(

PrescriptionId INT PRIMARY KEY IDENTITY(1,1),

Prescription VARCHAR(250) NOT NULL,

PrescriptionDate DATE NOT NULL,

EmployeeId INT NOT NULL,

PatientId INT NOT NULL,

CONSTRAINT FK\_PRESCRIPTION\_PATIENT FOREIGN KEY(PatientId) REFERENCES Patients(PatientId),

CONSTRAINT FK\_PRESCRIPTION\_EMPLOYEE FOREIGN KEY(EmployeeId) REFERENCES Employees(EmployeeId),

);

-- Table TestReports

CREATE TABLE **TestReports**

(

TestReportId INT PRIMARY KEY IDENTITY(1,1),

TestReport VARCHAR(250) NOT NULL,

PatientId INT NOT NULL,

DoctorId INT NOT NULL,

LabTechnicianId INT NOT NULL,

CONSTRAINT FK\_TESTREPORTS\_PATIENT FOREIGN KEY(PatientId) REFERENCES Patients(PatientId),

CONSTRAINT FK\_TESTREPORTS\_EMP\_DOCTOR FOREIGN KEY(DoctorId) REFERENCES Employees(EmployeeId),

CONSTRAINT FK\_TESTREPORTS\_EMP\_TECHNICIAN FOREIGN KEY(LabTechnicianId) REFERENCES Employees(EmployeeId),

);

-- Table Queries

CREATE TABLE **Queries**

(

QueryId INT PRIMARY KEY IDENTITY(1,1),

Query VARCHAR(500) NOT NULL,

IsAnswered BIT,

AnsweredBy INT,

CONSTRAINT FK\_QUERIES\_EMPLOYEE FOREIGN KEY(AnsweredBy) REFERENCES Employees(EmployeeId),

);

-- Table Payments

CREATE TABLE **Payments**

(

PaymentId INT PRIMARY KEY IDENTITY(1,1),

Amount MONEY NOT NULL,

PatientId INT NOT NULL,

CONSTRAINT FK\_PAYMENTS\_PATIENTS FOREIGN KEY(PatientId) REFERENCES Patients(PatientId),

);

--- Table LabHasTechnician

CREATE TABLE LabHasTechnician

(

LTId INT PRIMARY KEY IDENTITY(1,1),

LabId INT NOT NULL,

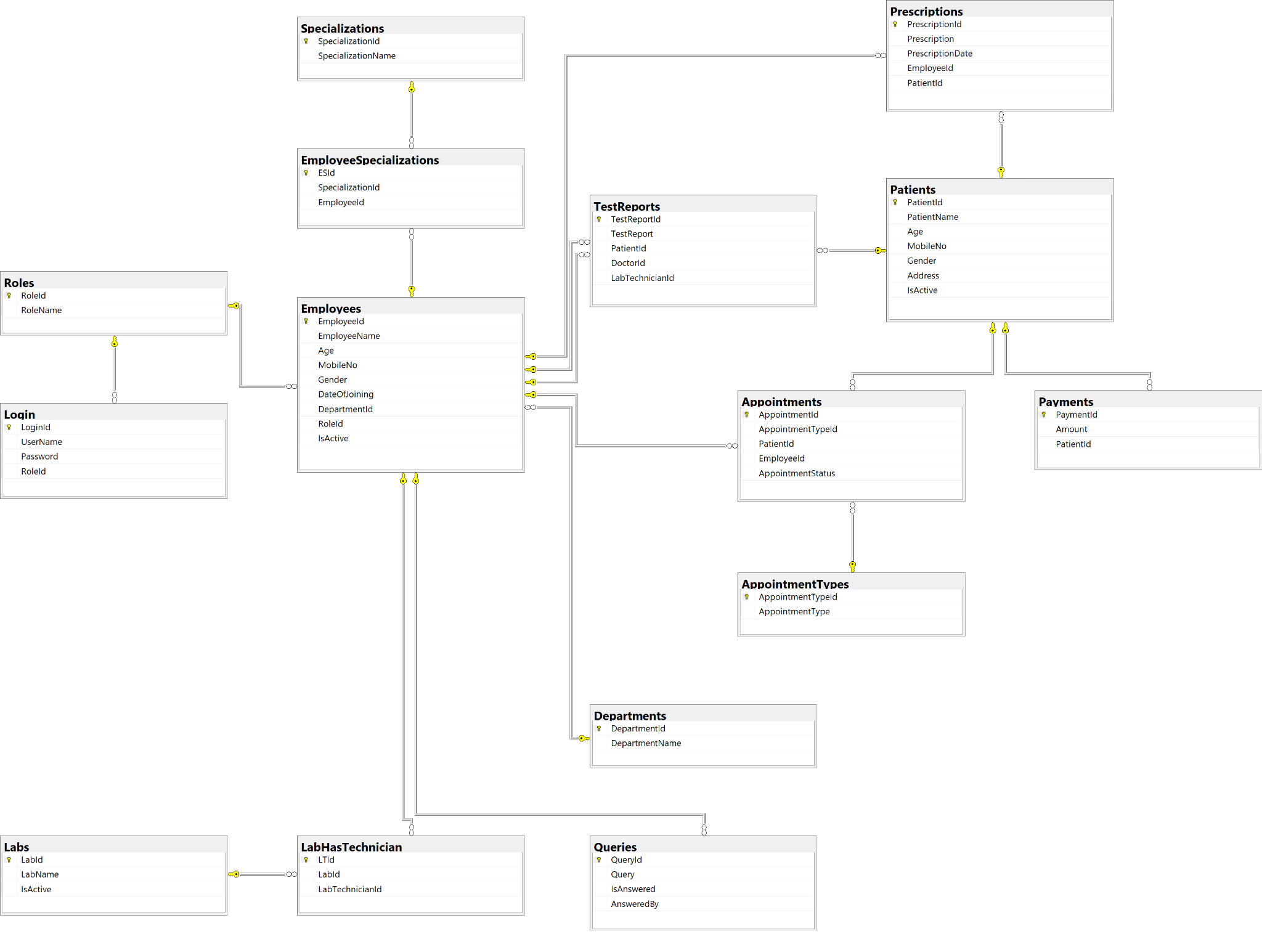
LabTechnicianId INT NOT NULL,

CONSTRAINT FK\_LT\_Labs FOREIGN KEY(LabId) REFERENCES Labs(LabId),

CONSTRAINT FK\_LT\_Employee FOREIGN KEY(LabTechnicianId) REFERENCES Employees(EmployeeId)

);

**E-R Diagram**

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